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AUTOMATIC **FEMUR** DECOMPOSITION, RECONSTRUCTION AND REFINEMENT ...

R Cuypers, S Kiel, W Luther - Proceedings of the IASTED International ... - actapress.com
... generated, it cannot be safely assumed that every component in the **femur** model has ... The main
reason for this is due to inhomogeneities in the **mesh** surface that ... **Sphere** × **Sphere** → **Sphere**
Conditions: • Both **spheres** have radii whose absolute distance |r1 − r2| is smaller than ...

Automated measurement of objects using deformable models

M Kaus, J Weese, S Lobregt - US Patent App. 10/521,254, 2003 - Google Patents
... For example, when the center of the **femur** head is to be determined, a **sphere** is ... Also, when the
axis of the **femur** shaft is to be detected, a straight line is selected as geometrical ... The **primitive**
can be fitted to the triangles of the **mesh** labelled as belonging to a particular sub-part ...
All 6 versions

Efficient and Accurate **Femur** Reconstruction using Model-based Segmentation ...

R Cuypers, Z Tang, W Luther, J Pauli - Proceedings of the Fourth IASTED ... - actapress.com
... To determine the type of generic primitives (**sphere**, tapered or bent cylinder, bent ellipsoid), the ...
The final model was used to extract certain significant **femur** features from the SQs ... manually
extracted values and values de- termined by the above-mentioned **mesh**-model fitting ap ...
Cited by 1 - Related articles - All 4 versions

BCAD: A Bayesian CAD System for Geometric Problems Specification and ...

K Mekhnacha, P Bessiere - ... Reasoning and Decision Making in Sensory- ..., 2008 - Springer
... Recent versions of BCAD extend the notion of "kinematic graph" to include shape parameters
in the model. Examples of such shape parameters are as fol- lows. • The radius of a **sphere** (see
example 6.3). • The position of a vertex in a **mesh primitive**. ... 3.2 Objective Function ...
Related articles - All 2 versions

Implicit reconstruction of solids from cloud point sets

CT Lim, GM Turkiyyah, MA Ganter, DW ... - Proceedings of the third ..., 1995 - portal.acm.org
... **primitive** volumes, and is comprised of a blended union of spherical primitives. The parameters
of the algebraic func- tion are the spatial locations and radii of the **spheres** as well as ... Two 3D
sample data sets, a **femur** and a molar, are used to demonstrate the effectiveness of the ...
Cited by 36 - Related articles - All 2 versions

[PDF] ROD-TV: reconstruction on demand by tensor voting

WS Tong, CK Tang - IEEE COMPUTER SOCIETY ..., 2003 - visgraph.cs.ust.hk
... (a) Noisy data **Femur**, (b) surface ... In each recursive step, The desired LOD is determined by the
projected size of the bounding **sphere** of the token on the ... To elaborate partial **mesh** connectivity,
consider one ex- treme when c = 1. Only the local surface patch exactly at the token ...
Related articles - View as HTML - BL Direct - All 6 versions

Rapid prototyping applications in medicine. Part 2: STL file generation and case ...

D Ma, F Lin, CK Chua - The International Journal of Advanced ..., 2001 - Springer
... The STL format is gener- ated through the triangular **mesh** construction process adapted from
the marching ... the mixed **femur** model has a medium-size STL file among the three **femur** models. ...
Fifty **spheres** with radii ranging from 3 mm to 12.5 mm are randomly joined together to ...
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